M-1250/M-1450 Sensor Quick Start Guide

Revision B

McAfee® Network Security Platform

This Quick Start Guide explains how to quickly set up and activate your McAfee® Network Security Platform M-1250/M-1450 Sensor in in-line mode. Cabling the Sensor's Small Form-factor Pluggable (SFP) Gigabit Ethernet Monitoring ports for in-line mode enables you to configure the Sensor to drop attacks before they reach their target.

> If you are setting up your Sensor in SPAN or Tap mode, see the Sensor's Product Guide for cabling instructions.

All product documentation referenced in this Quick Start Guide is found on the McAfee Service Portal.

The Sensor panel

M-1250/M-1450 Sensor is a 1RU (1 rack unit) and is equipped with the following components:

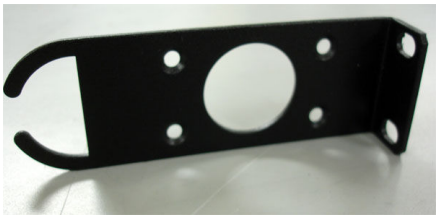
1	RJ-45 10/100/1000 Management port (1)	5	RJ-45 10/100/1000 Ethernet Monitoring ports (8)
2	RJ-45 Response port (1)	6	External Compact Flash port (1)
3	RS-232C Console port (1)	7	Power supply A (1)
4	RS-232C Auxiliary port (1)		

Sensor setup overview

This section explains how to position and cable the various ports of your Sensor. This section also briefly explains how to install the Manager and then add the Sensor to the Manager, and verify that you have successfully established communication between the Sensor and the Manager.

1 Position the Sensor

a Keep the mounting ears and screws ready.



b Attach the ears to the Sensor.

c Install the Sensor into a rack.

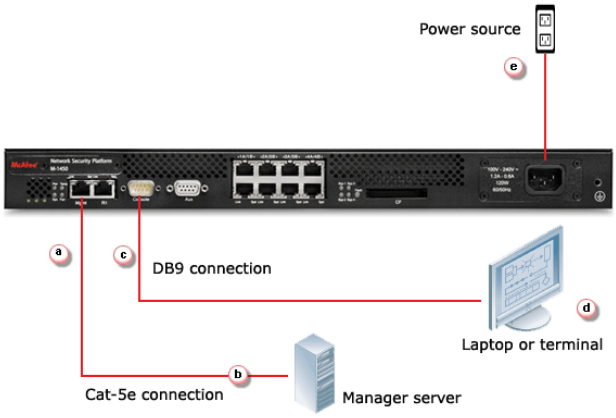
2 Cabling the Management and Console ports

Ensure the Sensor is powered OFF before attaching cables.

a Plug a Category 5e Ethernet cable in the Mgmt port.

b Plug the other end of the cable into the network device connected to your Manager server.

c Plug the DB9 Console cable supplied in the Sensor box into the Console port (labeled Console on the Sensor front panel).



d Connect the other end of the Console port cable directly to a COM port of the PC or terminal server you will be using to configure the Sensor (for example, a PC running correctly configured Windows HyperTerminal software). You must connect directly to the console for initial configuration; you cannot configure the Sensor remotely.

The required settings for HyperTerminal are:

- Baud rate: 38400
- Number of Bits: 8
- Parity: None
- Stop Bits: 1
- Control Flow: None

e Plug the female end of a power cable into the power inlet and plug the other end into a power source. The Sensor ships with standard US power and international cables.

> The M-1250/M-1450 does not have a power switch; you need to only plug the power cable into a power source.

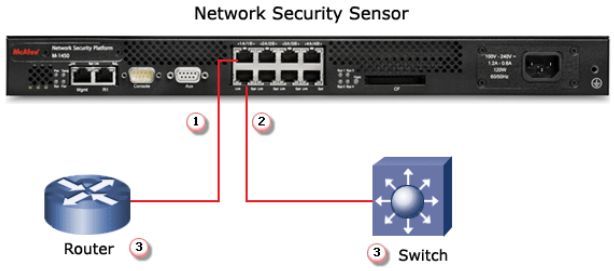
3 Cable the Monitoring ports

This procedure describes how to cable a Sensor to run in In-Line mode.

a Plug the cable appropriate for use into one of the Monitoring ports labeled xA (for example, 1A).

b Plug another cable into the peer of the port used in the earlier step. This port will be labeled xB (for example, 1B).

c Connect the other end of each cable to the network devices that you want to monitor. (For example, if you plan to monitor traffic between a switch and a router, connect the cable connected to 1A to the router and the one connected to 1B to the switch.)



> For instructions on how to cable the Sensor to run in other operating modes, see *McAfee Network Security Platform M-1250/M-1450 Sensor Product Guide*.

4 Install the Manager Software

For detailed instructions, refer to *McAfee Network Security Platform Installation Guide*.

> You must have administrator privileges on the target Windows server to install the Manager software.

> A MySQL database is included with the Manager and is installed (embedded) automatically on your target Windows server during this process.

Following steps briefly explain the Manager installation:

a Prepare the system according to the requirements outlined in *McAfee Network Security Platform Installation Guide* and the Network Security Platform Release Notes.

b Close all open applications.

c Go to McAfee Update Server and log on, using the grant number and password.

d Go to **Manager Software Updates** folder and select the latest Manager software version available.

e Download the zip file to the target Windows server and extract the setup file.

f Double-click Manager_<version>_setup.exe and follow the on screen prompts.

5 Start the Manager

Click **Start** | **Programs** | **McAfee** | **Network Security Manager** | **Network Security Manager**.

You do not require a license file for using Manager/Central Manager version 5.1.17.2 or above, and 6.0.7.x or above.

6 Adding the Sensor to the Manager

The Manager displays the Login ID page.

a Log on to the Manager. The default Login ID is `admin` and the default Password is `admin123`.

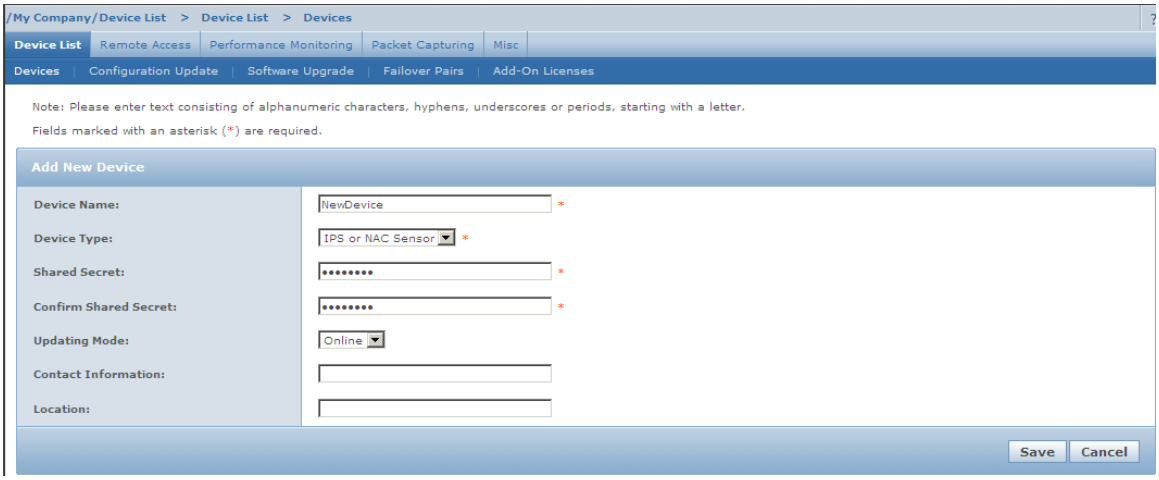
b Click **Configure**.

c An add-on license is required to enable NAC on M-series Sensors. To import and assign an add-on license, go to **Device List** | **Add-On Licenses** page. For more information, see *McAfee Network Security Platform Installation Guide*.

You do not require a license file to enable IPS on M-series Sensors.

d To add a Sensor in the Manager, click **Device List** | **Devices**, and then click **New**.

The **Add New Device** page is displayed.



e Enter information in the appropriate fields and click **Save**.

Remember the *Shared Secret* value entered at this step. This value is used while you configure the Sensor.

For more information on the fields in **Add New Device** page, see *McAfee Network Security Platform Installation Guide*.

7 Configuring Sensor information

Configuring the Sensor involves specifying network information, a name, and the shared secret key that the Sensor uses to establish secure communication with the Manager. Use the same name and key values set earlier.

The first time you configure the Sensor, you must have physical access to the Sensor.

At any time during configuration, you can type a question mark (`?`) to get help on the Sensor command-line interface (CLI) commands. For a list of all commands, type `commands`.

a Log on to the Sensor using the terminal connected to the Console port.

b At the prompt, log on using the default Sensor user name `(admin)` and password `(admin123)`.

c *Optional, but recommended*—Change the Sensor password. At the prompt, type: `passwd`.

The Sensor prompts you to enter the new password and prompts you for the old password.

> A password must contain between 8 and 25 characters, is case-sensitive, and can consist of any alphanumeric character or symbol.

d Set the name of the Sensor:

> You can enter the `setup` command at the prompt and this will automatically prompt you to provide the necessary information or you can use the `set` command instead. If you use the `set` command, you must manually enter the complete command syntax. Example: At the prompt, type: `set sensor name <word>`.

Example: `set sensor name HR_sensor1`

> The Sensor name is a case-sensitive character string up to 25 characters. The string can include hyphens, underscores, and periods, and must begin with a letter.

e If the Sensor is not on the same network as the Manager, set the address of the default gateway. At the prompt, type: `set sensor gateway <A.B.C.D>`.

Example: `set sensor gateway 192.168.3.68`

f Set the IP address of the Manager server. At the prompt, type: `set manager ip <A.B.C.D>`.

Example: `set manager ip 192.168.2.8`

g Set the IP address and subnet mask of the Sensor. At the prompt, type: `set sensor ip <A.B.C.D> <E.F.G.H>`.

Example: `set sensor ip 192.168.2.12 255.255.255.0`

> Specify an IP address using four octets separated by periods: X.X.X.X, where X is a number between 0 and 255, followed by a subnet mask in the same format.

h If prompted, reboot the Sensor. Type: `reboot`.

> The Sensor can take up to five minutes to complete its reboot.

i Ping the Manager from the Sensor to determine if your configuration settings to this point have successfully established the Sensor on the network. At the prompt, type: `ping <manager IP address>`.

If the ping is successful, continue with the following steps. If not, type `show` to verify your configuration settings and check that the information is correct.

j Set the shared secret key value for the Sensor. At the prompt, type: `set sensor sharedsecretkey`.

The Sensor then prompts you to enter the shared key value and confirm the same.

This value is used to establish a trust relationship between the Sensor and the Manager. The secret key value can be between 8 and 25 characters of any ASCII text. The shared key value is case-sensitive.

Make sure the value matches the shared secret key value you provided in the Manager interface.

k To verify the configuration information, type `show`. Check that all information is correct.

l To exit the session, type `exit`.

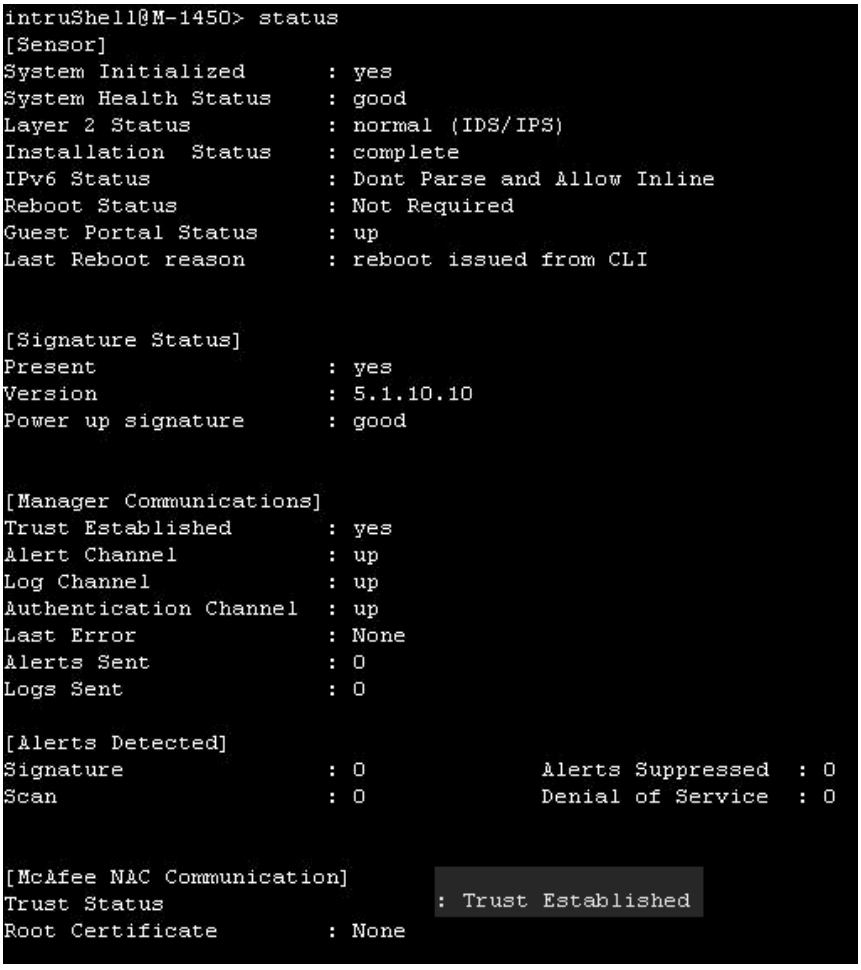
8 Verify successful installation

A handshake process begins between the Sensor and the Manager. The devices will take a few seconds to establish communication.

Perform the following steps to verify successful communication between the Sensor and the Manager.

a In the Sensor CLI, type: `status`.

The status report appears


intruShell@M-1450> status
[Sensor]
System Initialized : yes
System Health Status : good
Layer 2 Status : normal (IDS/IPS)
Installation Status : complete
IPv6 Status : Dont Parse and Allow Inline
Reboot Status : Not Required
Guest Portal Status : up
Last Reboot reason : reboot issued from CLI
[Signature Status]
Present : yes
Version : 5.1.10.10
Power up signature : good
[Manager Communications]
Trust Established : yes
Alert Channel : up
Log Channel : up
Authentication Channel : up
Last Error : None
Alerts Sent : 0
Logs Sent : 0
[Alerts Detected]
Signature : 0 Alerts Suppressed : 0
Scan : 0 Denial of Service : 0
[McAfee NAC Communication]
Trust Status : Trust Established
Root Certificate : None

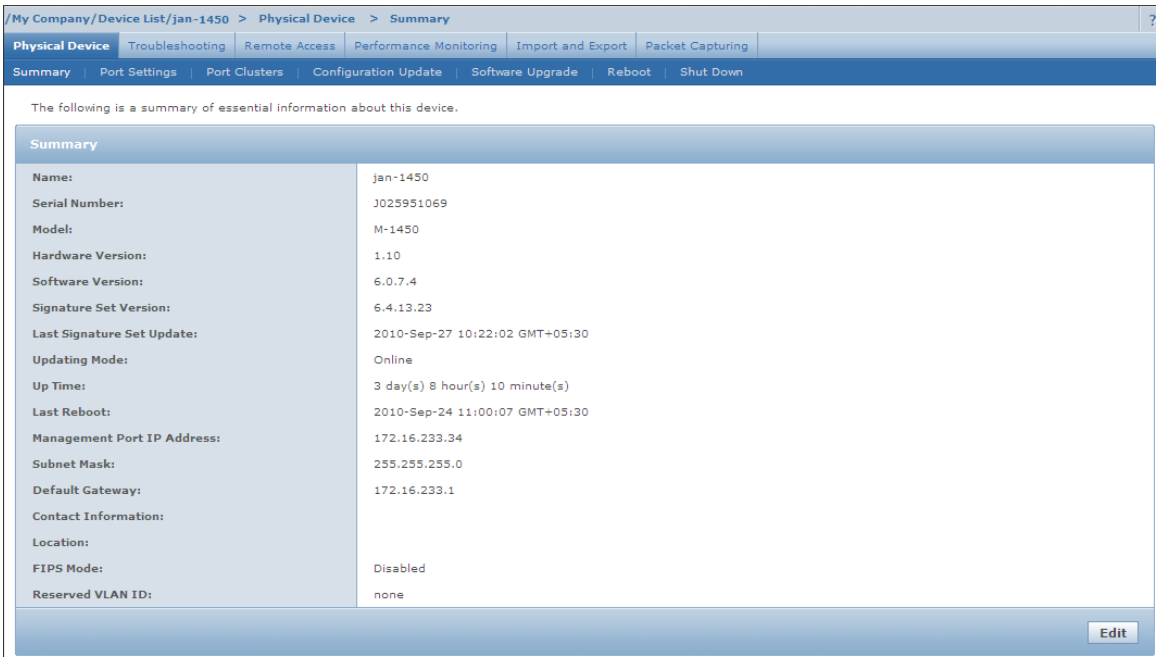
b Return to the Manager. In the **Manager Home page**, view the Manager status in the **System Health** section.

Manager status should be *up* and Sensor status should be *active*.

c From the **Manager Home page**, click **Configure** to open the **Configuration** page.

d Select your added Sensor: **Device List** | **Sensor_Name**. The ports for this Sensor appear under the **Sensor_Name** node.

"Device_Name" indicates the name of the Sensor you added.



e A policy named *Default Inline IPS* is active upon Sensor addition. To view this policy, select **IPS Settings** | **Policies** | **IPS Policy Editor**. Now select **Default Inline IPS** from the list and click **View / Edit**.

The *Default Inline IPS* policy contains attacks already configured with a "blocking" Sensor response action; if any attack in the policy is triggered, the Sensor automatically blocks the attack. To tune this or any other McAfee-provided policies, you can clone the policy and then customize it as described in the *McAfee Network Security Platform IPS Administration Guide*.

f Click **Device List** | **Device_Name** | **Port Settings**.

For more information on port settings, see Configuration Sensor monitoring and response ports, *McAfee Network Security Platform IPS Administration Guide*.

g Click the button representing the ports on the Sensor that you cabled. Ensure that your port settings match the cabling (for example, In-line mode).

9 You're up and running!

Your Sensor is actively monitoring connected segments and communicating with the Manager for administration and management operations.

a Read *McAfee Network Security Platform Quick Tour* for an overview of the system. For detailed usage instructions, see *McAfee Network Security Platform Installation Guide* and *McAfee Network Security Platform IPS Administration Guide*, or click the **Detailed Help** buttons in the upper-right corner of each window in the Manager.

b Launch the **Threat Analyzer** from the **Home** page to view alert statistics as attacks are detected. These will display in the **Unacknowledged Alert Summary** area of the **Manager Home** page.

c Having problems? Check *McAfee Network Security Platform Troubleshooting Guide* for troubleshooting information.

d Note that most deployment problems stem from configuration mismatches between the Sensor and the network devices to which it is connected. Check your duplex and auto-negotiation settings on both devices to ensure they are synchronized.

If you need to contact Technical Support, go to https://mysupport.mcafee.com.

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